Application No.: 10/579,194 Docket No.: 5706-0101PUS1

Response to Office Action dated Nov. 18, 2008

REMARKS

Applicants thank the Examiner for the thorough consideration given the present

application.

Claims 1-11 are now present in this application. Claim 1 is independent.

Claims 1, 2, 6, 10 and 11 have been amended. Reconsideration of this application, as

amended, is respectfully requested.

Priority Under 35 U.S.C. § 119

Applicants thank the Examiner for acknowledging Applicants' claim for foreign priority

under 35 U.S.C. § 119, and receipt of the certified priority document.

Information Disclosure Citation

Applicants thank the Examiner for considering the references supplied with the

Information Disclosure Statement filed May 12, 2006, and for providing Applicants with an

initialed copy of the PTO-SB08 form filed therewith.

Double Patenting

The Examiner provisionally rejected claims 1-11 under nonstatutory obvious-type double

patenting over claims 1-13 of co-pending Application No. 10/593,480. The Applicant will

address this rejection upon the indication of allowable subject matter, to reassess whether the

rejection is applicable at that time.

Rejection Under 35 U.S.C. § 112, 2nd Paragraph

Claims 2, 3(1), 5(1) and 6(1) stand rejected under 35 U.S.C. § 112, 2nd Paragraph. This

rejection is respectfully traversed.

The Examiner has set forth certain instances wherein the claim language lacks antecedent

basis or is not clearly understood.

In order to overcome this rejection, Applicants have amended claim 2 to correct each of

the deficiencies specifically pointed out by the Examiner regarding the use of the word

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vertically. The term "air diffusion tubes" is in original claim 1, paragraph II, when reciting the features of the air diffusion unit, providing antecedent basis for claims 3(1), 5(1) and 6(1). Applicants respectfully submit that the claims, as amended, particularly point out and distinctly claim the subject matter which Applicants regard as the invention. Accordingly, reconsideration and withdrawal of this rejection are respectfully requested.

Rejections under 35 U.S.C. §103

Claims 1-6 and 9-11 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over US 6,328,886 (Miyashita et al.) in view of US 2002/0139748 (Cote et al.). Further, claims 7 and 8 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Miyashita et al. in view of Cote et al. and either Hayano et al. or Brun et al. These rejections are respectfully traversed.

Complete discussions of the Examiner's rejections are set forth in the Office Action, and are not being repeated here.

While not conceding the appropriateness of the Examiner's rejection, but merely to advance prosecution of the instant application, Applicants respectfully submit that independent claim 1 has been amended to recite a combination of elements in a hollow fiber membrane module including two module headers, each of the module headers having a filtrate water collecting portion for collecting filtrate water filtered through hollow fiber membranes and a filtrate water outlet, an air diffusion unit comprising support tubes and air diffusion tubes having air diffusion holes and a bundle of hollow fiber membranes having both opposite ends fixed to the insides of the module headers by an adhesive so as to form a water collecting space within the module headers, the ends of the hollow portions of the hollow fiber membranes being opened and disposed in parallel to a filtrate water discharge surface. Each of the support tubes has opposite ends connected to the two module headers respectively thereby keeping the two module headers spaced apart by a predetermined distance, and at least one of the support tubes has a plurality of air diffusion holes.

Applicants respectfully submit that this combination of elements as set forth in independent claim 1 is not disclosed or made obvious by the prior art of record, including Miyashita et al., Cote et al., Hayano et al. and Brun et al.

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The Examiner states that claims 1-6 and 9-11 are obvious over Miyashita et al. in view of Cote et al. However, it is unclear what the Examiner is relying on Cote et al. to disclose that is not disclosed by Miyashita et al. The original statement of rejection states "and/or Cote et al." and the Examiner states that Miyashita et al. does not disclose the air hole size and shapes but those limitations are not recited in claims 1 and 2. Clarification of the rejection, including what Cote et al. is relied upon for disclosing, is respectfully requested.

Applicants respectfully submit that the claim recites headers with an air diffuser unit having support tubes extending between the headers, at least one having air diffusion holes and air diffusion tubes having air diffusion holes. Besides the membranes 103, the only other structure in Miyashita et al. is a single gas diffuser 104 between each pair of headers 114. There are no support tubes extending between pairs of headers or air diffuser tubes, as is claimed. Cote et al. does not cure the deficiencies of Miyashita et al. Cote et al. discloses a swingable frame surrounding a group of membranes but is in no way attached to them. There are no headers having support tubes extending between them and air diffusion tubes. By disclosing an aeration system to clean membranes that is separate from the membranes and headers, Cote et al. discloses a system that is completely different than the system disclosed by Miyashita et al.

The Examiner also does not identify, and it is not seen, where either Miyashita et al. or Cote et al. disclose air diffusion tubes disposed in the bundle of hollow fiber membranes, as is recited in claim 2. Clarification of this matter is requested.

Applicants respectfully submit that the combination of elements as set forth in independent claim 1 is not disclosed or made obvious by the prior art of record, including Miyashita et al., Cote et al., Hayano et al. and Brun et al., for the reasons explained above. Accordingly, reconsideration and withdrawal of this rejection are respectfully requested.

With regard to dependent claims 2-11, Applicants submit that these claims depend, either directly or indirectly, from independent claim 1 which is allowable for the reasons set forth above, and therefore are allowable. In addition, these claims recite further limitations which are not disclosed or made obvious by the applied prior art references. Reconsideration and allowance thereof are respectfully requested.

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Conclusion

All of the stated grounds of rejection have been properly traversed, accommodated, or rendered moot. Applicants therefore respectfully request that the Examiner reconsider all presently outstanding rejections and that they be withdrawn. It is believed that a full and complete response has been made to the outstanding Office Action, and as such, the present application is in condition for allowance.

If the Examiner believes, for any reason, that personal communication will expedite prosecution of this application, the Examiner is invited to telephone Chris McDonald, Registration No. 41,533, at (703) 205-8000, in the Washington, D.C. area.

Prompt and favorable consideration of this Amendment is respectfully requested.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. §§ 1.16 or 1.17; particularly, extension of time fees.

Dated: February 18, 2009 Respectfully submitted,

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